

Text Message Service

Summary

Text message service provides text message transmission interface for using e-government SMS service (mobile e-government M-Gov) and can be used through separate M-Gov application.

- Function Flow



If not using the framework such as e-gov framework, see [SMS Service](#) for application.

Precondition

To use text message service, e-government SMS service (mobile e-government M-Gov) should be applied separately, which is managed by Integrated Information Computer Center of Ministry of Public Administration and Security.

Service application procedure is as follows:

- ① Service use application: submit the No. 1 or 3 form of use application(see the regulation on use of relevant site) to the center depending on the type of service.
- ② Information notice: notify the review results to the applying institute in writing within 15 days from the date of receipt.
- ③ Preparation for service: applying institute links using "M-Gov connection API" provided by the center.
- ④ Service operation service opening: the center may cancel the notice of use if applying institute fails to open service within 60 days after approval.

See mobile government, M-gov (<http://www.mgov.go.kr>) for more details and inquiry.

Description

Text message service provided by common component not only provides SMS service through "M-Gov connection API" but also provides history management for transmission. (Separate method is provided for the case requiring no history management, but the contents for transmission result cannot be confirmed)

Package Dependency

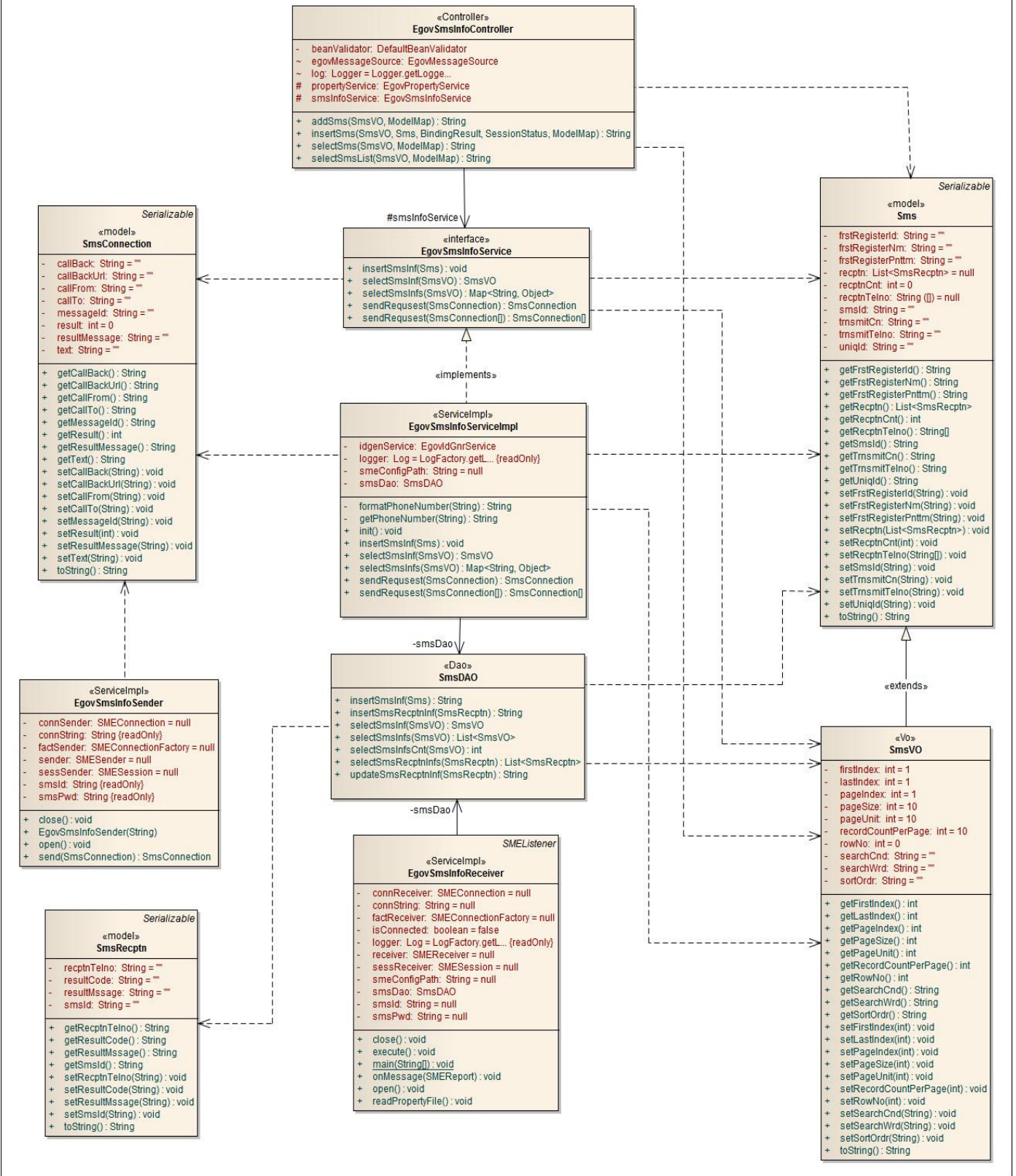
Text message service package has direct functional dependency to the common package (cmm) of element technology. However, it forms the deployment file together with format/date/calculation package according to dependency between packages so as to be executed without error during component deployment.

- Package Dependency: [Board, Community, Society Package Dependency](#)

Related Source

Type	Source	Remarks
Controller	egovframework.com.cop.sms.web.EgovSmsInfoController.java	Controller class for text message service
Service	egovframework.com.cop.sms.service.EgovSmsInfoService.java	Service interface for text message service
ServiceImpl	egovframework.com.cop.sms.service.impl.EgovSmsInfoServiceImpl.java	Service implementation class for text message service
ServiceImpl	egovframework.com.cop.sms.service.impl.EgovSmsInfoSender.java	Class for text message connection processing
ServiceImpl	egovframework.com.cop.sms.service.impl.EgovSmsInfoReceiver.java	Class for receiving text message connection result
Model	egovframework.com.cop.sms.service.Sms.java	Model class for text message service
Model	egovframework.com.cop.sms.service.SmsConnection.java	Model class for text message service (connection information)
VO	egovframework.com.cop.sms.service.SmsVO.java	VO class for text message service
VO	egovframework.com.cop.sms.service.SmsRecptn.java	Model class for text message service (Reception information)
DAO	egovframework.com.cop.sms.service.impl.SmsDAO.java	Data processing class for text message service
JSP	/WEB-INF/jsp/egovframework/com/cop/sms/EgovSmsInfoList.jsp	List inquiry jsp page for text message service
JSP	/WEB-INF/jsp/egovframework/com/cop/sms/EgovSmsInfoRegist.jsp	Registration jsp page for text message service
JSP	/WEB-INF/jsp/egovframework/com/cop/sms/EgovSmsInfoDetail.jsp	Detail inquiry jsp page for text message service
Query XML	resources/egovframework/sqlmap/com/cop/sms/EgovSms_SQL_Mysql.xml	MySQL based Query for text message service
Query XML	resources/egovframework/sqlmap/com/cop/sms/EgovSms_SQL_Oracle.xml	Oracle based Query file for text message service
Query XML	resources/egovframework/sqlmap/com/cop/sms/EgovSms_SQL_Tibero.xml	Tibero based Query file for text message service
Query XML	resources/egovframework/sqlmap/com/cop/sms/EgovSms_SQL_Altibase.xml	Altibase based Query file for text message service
Validator Rule XML	resources/egovframework/validator/validator-rules.xml	XML defining Validator Rule
Validator XML	resources/egovframework/validator/com/cop/sms/EgovCnsltManage.xml	Validator XML for text message service
Message properties	resources/egovframework/message/com/message-common_ko_KR.properties	Message properties for text message service
Idgen XML	resources/egovframework/spring/context-idgen.xml	Id generation Idgen XML for text message service

Class Diagram



ID Generation

ID Generation Related DDL and DML

- To utilize ID Generation Service, **SMS_ID** is added to the Sequence storage table, COMTECOPSEQ.

```

CREATE TABLE COMTECOPSEQ ( table_name varchar(16) NOT NULL,
next_id DECIMAL(30) NOT NULL,
PRIMARY KEY (table_name));

```

```
INSERT INTO COMTECOPSEQ VALUES('SMS_ID','0');
```

ID Generation Configuration (context-idgen.xml)

```
<bean name="egovSmsIdGnrService"
      class="egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService"
      destroy-method="destroy">
  <property name="dataSource" ref="egov.dataSource" />
  <property name="strategy" ref="smsStrategy" />
  <property name="blockSize" value="10"/>
  <property name="table" value="COMTECOPSEQ"/>
  <property name="tableName" value="SMS_ID"/>
</bean>
<bean name="smsStrategy"
      class="egovframework.rte.fdl.idgnr.impl.strategy.EgovIdGnrStrategyImpl">
  <property name="prefix" value="SMS_" />
  <property name="cipers" value="16" />
  <property name="fillChar" value="0" />
</bean>
```

Related Table

Table Name	Table Name (English)	Remarks
Text message	COMTNSMS	Manage text message transmission information.
Receive text message	COMTNSMSRECPTN	Manage text message reception information.

Configuration

To use this text message service, it is required to designate "SMEConfig.properties" file provided by "M-Gov linkage API".

To designate this, additional property should be set to globals.properties property file.

See [Element Technology Property and Command Shell Script](#) for contents on globals.properties

- Add Globals.SMEConfigPath

```
...
# Location(relative path) of Text Message Service Environment Setting File
Globals.SMEConfigPath = conf/SMEConfig.properties
...
```

For your reference, SMEConfig.properties includes the M-Gov center information and account information as file provided by mobile e-government M-Gov.

Transmission Result Reception Scheduler Registration

Results for transmission are reflected through separate scheduler. To register relevant scheduler, register the following scheduler as shown in .../spring/com/context-scheduling-cop-sms.xml(example).

```
<!--Receiving Process of SMS Transmission Results -->
<bean id="smsInfoReceiver"

class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">
  <property name="targetObject" ref="EgovSmsInfoReceiver" />
  <property name="targetMethod" value="execute" />
  <property name="concurrent" value="false" />
```

```

</bean>

<bean id="smsInfoReceiverTrigger"
      class="org.springframework.scheduling.quartz.SimpleTriggerBean">
  <property name="jobDetail" ref="smsInfoReceiver" />
  <!--Execute in 1 minute after start. (milisecond) -->
  <property name="startDelay" value="60000" />
  <!--Execute in every 60 seconds. (milisecond) Continue to operate in demon type --
  >
  <property name="repeatInterval" value="60000" />
</bean>

<bean id="smsInfoReceiverScheduler"
      class="org.springframework.scheduling.quartz.SchedulerFactoryBean">
  <property name="triggers">
    <list>
      <ref bean="smsInfoReceiverTrigger" />
    </list>
  </property>
</bean>

```

Related Function

Text message service is composed of **text message list inquiry, text message detail inquiry and text message transmission function.**

Text Message List Inquiry

Business Rule

Text message list screen provides the list for the text message sent by the current user.

Related Codes

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
List Inquiry	/cop/sms/selectSmsList.do	selectSmsList	"SmsDAO.selectSmsInfs",
			"SmsDAO.selectSmsInfsCnt"

Text message list is inquired by 10 items per page. The paging consists of 10 pages. To change the scope of search per page, change pageUnit, pageSize of context-properties.xml file. (provided, however, that relevant setting affects the overall common service function.)

번호	전송일시	발신전화번호	수신전화번호수
1	2009-10-14 21:17:26	01x-xxxx-xx00	1

Inquiry: select the search condition on the top, enter search condition and click the Inquiry button.
Send: move to **Send Text Message** Screen.

Text Message Detail Inquiry

Business Rule

Text message detail inquiry provides the sending information, receiving information as well as information on transmission result.

Related Codes

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Detail Inquiry	/cop/sms/selectSms.do	selectSms	"SmsDAO.selectSmsInf"



List: move to **Text Message List** screen.

Text Message Transmission

Business Rule

Enter outgoing number and incoming number for text message transmission. Up to 5 incoming numbers can be entered by default.

Related Codes

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Registration Screen	/cop/sms/addSms.do	addSms	
Send	/cop/sms/insertSms.do	insertSms	"SmsDAO.insertSmsInf"

☞ 문자메시지 전송

발신전화번호 *	<input type="text"/>
전송내용 *	<input type="text"/>
수신전화번호 *	1: <input type="text"/>
	2: <input type="text"/>
	3: <input type="text"/>
	4: <input type="text"/>
	5: <input type="text"/>

전송

목록

Send: send the entered text message.
List: move to **Text Message List** screen.